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Water-in-oil emulsions with a high water content, useful for cosmetic and medicinal applications, include a polyalkyleneglycol- or polyglycerol-based nonionic surfactant and an anionic and/or amphoteric polymer

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Patent Family:

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Abstract (Basic): DE 10049056 A1

Abstract (Basic):

NOVELTY - Water-in-oil emulsions comprising at least 70 wt.% aqueous phase and no more than 20 wt.% lipids, emulsifiers and lipophilic components include a polyalkyleneglycol- or polyglycerol-based nonionic surfactant (I) and an anionic and/or amphoteric polymer.

DETAILED DESCRIPTION - Water-in-oil emulsions comprising at least 70 wt.% aqueous phase and no more than 20 wt.% lipids, emulsifiers and lipophilic components, in which the lipid phase has a total polarity of 20-45 mN/m, include a surfactant of formula (I) and an anionic and/or amphoteric polymer:

A, A'=10-30C linear or branched (un)saturated alkyl, acyl or hydroxyacyl groups or polyester groups of formula -O(CO-R-CHR'-O)bH;

R'=1-20C alkyl;

R=1-20C alkylene;

b=2-202;

a=1-100;

X=a bond or CHOR3;

R1, R2=H or Me;

R3=H or 1-20C (un)saturated alkyl or acyl.

USE - The emulsions are useful for cosmetic and medicinal applications, e.g. for formulating skin care products or topical medicaments.

ADVANTAGE - The emulsions have a good skin feel, especially with

low stickiness.

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